## Standards of Public Land Health Evaluation of 63035 CIRCLE F RANCH Allotment [ 01/22/2010 ]

The Roswell Field Office interdisciplinary team conducted Rangeland Health Assessments at 5 study sites within the Circle F allotment, #63035. These assessments evaluated Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of the study locations. Existing monitoring data was incorporated into and in support of the field assessment. A summary of these assessments is attached and shown in the following table.

Study Area or		UPLAND			BIOTIC		RIPARIAN		
63035-#2-F070 63035-#3,4,D- F071 63035- #7,6,5,A,B,C-	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
63035-#1-F069	X			X			N/A		
63035-#2-F070	X			X			N/A		
63035-#3,4,D- F071	X			X			N/A		
63035- #7,6,5,A,B,C- F072	X			X			N/A		
63035-#8,E-F073	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on the Circle F Allotment, 63035. Ten of these assessed soil site stability, 11 hydrologic functions and 13 biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected on 5 trend plot locations within the allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office interdisciplinary teams, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. The collections, which were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 years. This allotment is in the "M" (Maintain) category.

The Circle F allotment is approximately 35,778 acres in size. Approximately 60% percent of the allotment is public surface, the pastures are large and contain from 2,176 acres to 8,187 acres of public land. Studies are located within each pasture; 2 are located in a Shallow CP-3 ecological site, while the others are in Shallow Limestone CP-3, Loamy CP-3, and Gravelly CP-3 ecological sites.

Recommendations: In each of the five pastures, there were no indicators that were rated as a moderate degree of departure for the Ecological site description and/or Ecological reference area. The majority of the indicators in each pasture were rated as "None to Slight". There are no riparian areas on public land within this allotment.

Causal Factors: With the majority of the indicators falling in the "None to Slight" Departure, this allotment is rated as "Meeting" the standards for Rangeland Health.

Recommendations: Continue the rangeland monitoring studies to insure proper stocking rates are maintained and that the perennial grass cover remains. Evaluate the cholla populations noted near study #7.

RF	Os Upland	and Biotic Standar	rd Ass	essment Su	mmary W	orksheet	
		SITE 630	)35-#1	-F069			
Lega	al Land Desc	SWNE 15 0040S 019 Meridian 23	0E		Acreage	3041	
	Ecosite	070CY113NM SHALLOW CP-3			Photo Takei	n N	
	Watershed	13060005040 FIFTER MILE	EN				
	Observers	ORTEGA, COLBERT	Γ	Obse	ervation Date	01/22/20	10
County	Soil Survey	NM632 LINCOLN		So	il Var/Taxao	ı	
So	oil Map Unit	013		Soil	Taxon Name	DEAMA	
Т	exture Class	NM632 L			Soil Phase	DEAMA PASTUR	
Text	ure Modifier	NM632 VERY COBBLY LOAM					
	Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
	OAA Annual Precipitation		1.2	NOAA Growing Season Precipitation			
NOAA Avg Annual Precipitation		(	0.69	NOAA Avg Growing Season Precipitation			C
	orbances and Animal Use:						
Part 2. Attı	ributes and l	Indicators					
				ure from Eco ption/Ecologi		e Areas	
Attribute	Indicators		Extren	Moderate		Slight to Moderate	None to Slight
S H	Rills					X	
Comments:		<u>'</u>					
S H	Water Flow	Patterns				X	
Comments:	Expected, s	hort and stable water f	low pat	terns			
S H	Pedestals an	nd/or Terracettes					X
Comments:							
S H	Bare Groun	nd				X	

Comments:	Soame bare areas, isolated patches	}			
SH	Gullies			X	
Comments:	One main gully in Treasure Canyo	n			
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement				X
Comments:					
SHB	Soil Surface Resistance to Erosion				X
Comments:	Litter and organic material present	-			
SHB	Soil Surface Loss or Degradation			X	
Comments:	Some, mostly in bottoms of draws,	, not signifi	icant.		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups				X
Comments:	As expected, many grass species p	resent.			
В	Plant Mortality/Decadence				X
Comments:					
Н В	Litter Amount				X
Comments:	Levels as expected.				
В	Annual Production			X	
Comments:	Approximately 80%				
В	Invasive Plants				X
Comments:					
В	Reproductive Capability of Perennial Plants				X
Comments:	Plenty of seed heads present.				
S	Physical/Chemical/Biological Crusts				X
Comments:					
В	Wildlife Habitat				X

Comments:	
В	Wildlife Populations X
Comments:	Mule deer observed.
В	Special Status Species Habitat
Comments:	Not applicable
В	Special Status Species Populations
Comments:	Not applicable
Comments:	Not applicable Special Status Species Populations

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	5	5
Н	Hydrologic	0	0	0	5	6
В	Biotic	0	0	0	2	9

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	11

Site Notes: Pasture looked good, little use and all species that are expected were present.

TKI (	os opian	d and Biotic Standa				iiiiiai y vv	UIKS	meet	
		SITE 63	3035-#2	2-F	070				
Legal I	and Desc	NWNE 32 0040S 0190 Meridian 23	0E			Acı	eage	2176	
Ecosite 070CY102NM SE LIMESTONE		070CY102NM SHALL LIMESTONE	LOW			Photo T	'aken	Y	
V	Vatershed	13060006030 PADILI	LA						
Observers ORTEGA, COLBERT		1		C	bservation	Date	01/22	2/2010	
County Soil Survey NM632 LINCOLN					Soil Var/T	'axad			
Soil	Map Unit	011			S	oil Taxon N	Vame	DEA	MA
Tex	ture Class	NM632 CBV-L				Soil F	hase	DEA	MA
Texture	Texture Modifier NM632 VERY COBBLY LOAM								
Observed Avg Annual Precipitation						ed Avg Gro on Precipit	_		
	A Annual cipitation	1.2		NOAA Growing Season Precipitation					
NOAA Av Pre	g Annual cipitation	0.69			NOAA Avg Growing Season Precipitation				
		Water trough (tub) loc location, cattle will be						study	
Part 2. Attr	ibutes and	d Indicators							
					e from Ecol on/Ecologic	logical Site cal Referen	ce Ar	eas	
Attribute	Indicators	S	Extre	ne	Moderate to Extreme	Moderate		ht to lerate	None to Slight
S H	Rills						2	X	
Comments:									
S H	Water Flo	ow Patterns					2	X	
Comments:	Some sm	all stable gullies in bott	toms.						
S H	Pedestals	and/or Terracettes							X
Comments:									
S H	Bare Gro	und					2	X	
Comments:									
	Gullies			_				X	

Comments:	Small gully in bottom, stable formation.		
S	Wind-scoured, Blowouts, and/or Deposition Areas		X
Comments:			
Н	Litter Movement		X
Comments:			
SHB	Soil Surface Resistance to Erosion		X
Comments:			
SHB	Soil Surface Loss or Degradation	X	
Comments:			
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X
Comments:			
SHB	Compaction Layer		X
Comments:			
В	Functional/Structural Groups		X
Comments:			
В	Plant Mortality/Decadence		X
Comments:			
НВ	Litter Amount		X
Comments:			
В	Annual Production	X	
Comments:	< than 80%.		
В	Invasive Plants		X
Comments:			
В	Reproductive Capability of Perennial Plants	X	
Comments:			
S	Physical/Chemical/Biological Crusts		X
Comments:			
В	Wildlife Habitat		X
Comments:			
В	Wildlife Populations		X

Comments:	Mule deer observed.
В	Special Status Species Habitat
Comments:	Not applicable.
В	Special Status Species Populations
Comments:	Not applicable.

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	5	5
Н	Hydrologic	0	0	0	5	6
В	Biotic	0	0	0	3	8

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	11

Site Notes: Expected species are present, high use levels at the study location due to close proximity to water tub.

RF	Os Upland	and Biotic Standar	rd Asses	sment Su	mmary W	orksheet	
		SITE 6303	5-#3,4,I	)-F071			
Lega	l Land Desc	NWNE 8 0050S 0190 Meridian 23	Е		Acreage	4664	
	Ecosite	070CY119NM GRAVELLY CP-3		P	hoto Taken	Y	
	Watershed	13060006030 PADILLA					
	Observers	ORTEGA, COLBER		Observ	vation Date	01/22/2010	)
County Soil Survey NM632 LINCOLN			Soil	Var/Taxad			
Sc	oil Map Unit	030		Soil Ta	axon Name	HOGADE	RO
T	exture Class	NM632			Soil Phase	HOGADE PENA	RO-
Textı	ıre Modifier	NM632 LOAM					
Observed Avg Annual Precipitation			C	Observed Avg Growing Season Precipitation			
	OAA Annual Precipitation		1.2 N	OAA Grow Pi			
	Avg Annual Precipitation	1	.69	NOAA Av Season Pr			
	rbances and Animal Use:	New road developmen	nt due to l	nigh hunter	traffic.		
Part 2. Att	ributes and	Indicators					
				re from Eco ion/Ecologi		ce Areas	
Attribute	Indicators		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:			L	L		<u> </u>	
S H	Water Flow	v Patterns				X	
Comments:	Some bare	areas, but within expec	tation le	vel			
S H	Pedestals a	nd/or Terracettes					X
Comments:							
S H	Bare Groun	nd					X
Comments:							

S H	Gullies	X	
Comments:	Large draws and Juan Largo Canyon in this pasture.		
S	Wind-scoured, Blowouts, and/or Deposition Areas		X
Comments:			
Н	Litter Movement		X
Comments:			
SHB	Soil Surface Resistance to Erosion		X
Comments:			
SHB	Soil Surface Loss or Degradation	X	
Comments:			
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X
Comments:			
SHB	Compaction Layer		X
Comments:			
В	Functional/Structural Groups		X
Comments:	As expected.		
В	Plant Mortality/Decadence		X
Comments:			
Н В	Litter Amount		X
Comments:			
В	Annual Production	X	
Comments:	Approximately 80%.		
В	Invasive Plants	X	
Comments:			
В	Reproductive Capability of Perennial Plants		X
Comments:	Plenty of seed heads.		
S	Physical/Chemical/Biological Crusts		X
Comments:			
В	Wildlife Habitat		X
Comments:			

В	Wildlife Populations X
Comments:	Mule deer observed.
В	Special Status Species Habitat
Comments:	Not applicable
В	Special Status Species Populations
Comments:	Not applicable

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	3	7
Н	Hydrologic	0	0	0	3	8
В	Biotic	0	0	0	3	8

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	11

Site Notes: Large pasture consisting of rough canyon in north and rolling hills on the south side. Pasture as a whole is in good condition.

RF(	Os Upland	and Biotic Standaı	d As	sses	sment Su	mmary W	orksheet	
		SITE 63035-#	7,6,5	,A,I	3,C-F072			
Lega	l Land Desc	SESE 26 0040S 0180 Meridian 23	Е		Acreage		8187	
	Ecosite	070CY109NM LOAN CP-3	ИΥ		Photo Taken		n N	
	Watershed	13060006030 PADIL	LA					
	Observers				Obse	rvation Date		
County	Soil Survey	NM632 LINCOLN			So	il Var/Taxao	ı	
Sc	oil Map Unit	013			Soil	Гахоп Name	DEAMA	
T	exture Class	NM632 L				Soil Phase	DEAMA PASTUR	
Textı	ıre Modifier	NM632 VERY COBBLY LOAM						
Observed Avg Annual Precipitation					Observed Avg Growing Season Precipitation		.	
NOAA Annual Precipitation		1 7		NOAA Growing Season Precipitation				
	Avg Annual Precipitation	1169		NOAA Avg Growing Season Precipitation				
	rbances and Animal Use:							
Part 2. Attr	ibutes and l	Indicators						
					e from Ecologic	logical Site	ce Areas	
Attribute	Indicators		Extro	eme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
SH	Rills							X
Comments:								11.
S H	Water Flow Patterns						X	
Comments:	Expected w	ater flow patterns, mir	or er	osio	n , short and	d stable.		
S H	Pedestals an	nd/or Terracettes						X
Comments:								
S H	Bare Groun	d					X	
Comments:								

S H	Gullies	X	
Comments:	Vegetation present on the edges and on the bo	ottoms.	
S	Wind-scoured, Blowouts, and/or Deposition Areas		X
Comments:			
Н	Litter Movement		X
Comments:			
S H B	Soil Surface Resistance to Erosion		X
Comments:	Litter and organic material present.		
SHB	Soil Surface Loss or Degradation	X	
Comments:	plant interspaces and bare areas.		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X
Comments:	Cholla present, but appears to be dying.		
SHB	Compaction Layer		X
Comments:			
В	Functional/Structural Groups		X
Comments:	All species as expected.		
В	Plant Mortality/Decadence		X
Comments:	Cholla dying.		
Н В	Litter Amount		X
Comments:			
В	Annual Production	X	
Comments:	Approximately 80%		
В	Invasive Plants		X
Comments:			
В	Reproductive Capability of Perennial Plants		X
Comments:	Plenty of seed heads present.		
S	Physical/Chemical/Biological Crusts		X
Comments:			
В	Wildlife Habitat		X
Comments:			

В	Wildlife Populations X
Comments:	
В	Special Status Species Habitat
Comments:	Not applicable
В	Special Status Species Populations
Comments:	Not applicable.

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	4	6
Н	Hydrologic	0	0	0	4	7
В	Biotic	0	0	0	2	9

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	11

Site Notes: All species expected are present, this pasture has rested for 6 months.

RFC	<b>Os Upland</b>	and Biotic Standar	d Ass	essment Su	mmary W	orksheet	
		SITE 6303	35-#8,1	E-F073			
Legal	Land Desc	NWSW 17 0040S 019 Meridian 23	90E		Acreage		
	Ecosite	070CY113NM SHALLOW CP-3			Photo Taker	n Y	
Watershed MILE 13060005040 FIFTEE		EN					
	Observers	ORTEGA, COLBERT	Γ	Obse	ervation Date	e 01/22/20	10
County	Soil Survey	NM632 LINCOLN		Sc	oil Var/Taxao	ŀ	
So	il Map Unit	013		Soil	Taxon Name	DEAMA	_
Те	exture Class	NM632 L			Soil Phase	DEAMA PASTUR	
Textu	re Modifier	NM632 VERY COBE LOAM	BLY				
	Avg Annual Precipitation			Observed Avg Growing Season Precipitation		-	
	AA Annual Precipitation			NOAA Growing Season Precipitation			
	Avg Annual Precipitation	II NY		NOAA Avg Growing Season Precipitation			
	rbances and Animal Use:	approximately 50% ut	ilizatio	n			
Part 2. Attr	ibutes and	Indicators					
				ure from Eco otion/Ecologi	_	e Areas	
Attribute	Indicators		Extren	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:							
S H	Water Flow	Patterns				X	
Comments:							
SH	Pedestals a	nd/or Terracettes					X
Comments:							
S H	Bare Groun	nd					X

Comments:		
SH	Gullies	X
Comments:		1
S	Wind-scoured, Blowouts, and/or Deposition Areas	X
Comments:		
Н	Litter Movement	X
Comments:		
SHB	Soil Surface Resistance to Erosion	X
Comments:	Rock armor and grass cover.	
SHB	Soil Surface Loss or Degradation	X
Comments:		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff	X
Comments:		
SHB	Compaction Layer	X
Comments:		
В	Functional/Structural Groups	X
Comments:		
В	Plant Mortality/Decadence	X
Comments:		
НВ	Litter Amount	X
Comments:		
В	Annual Production	X
Comments:	Above 80%	
В	Invasive Plants	X
Comments:		
В	Reproductive Capability of Perennial Plants	X
Comments:	A lot of seed heads present	
S	Physical/Chemical/Biological Crusts	X
Comments:		
В	Wildlife Habitat	X

Wildlife Populations					X
Special Status Species Habitat					
Not applicable					
Special Status Species Populations					
Not applicable					
	Special Status Species Habitat Not applicable Special Status Species Populations	Special Status Species Habitat  Not applicable  Special Status Species  Populations	Special Status Species Habitat  Not applicable  Special Status Species Populations	Special Status Species Habitat  Not applicable  Special Status Species Populations	Special Status Species Habitat  Not applicable  Special Status Species Populations

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	1	9
Н	Hydrologic	0	0	0	1	10
В	Biotic	0	0	0	0	11

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	11

Site Notes: The pasture looked the best of the allotment, the allotment as a whole is in good condition.

# Determination of Public Land (Rangeland) Health for 63035 CIRCLE F RANCH

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within Circle F allotment, 63035, meets the (1) Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ J. Howard Parman
Acting Assistant Field Manager

02/16/2010

Date